

MATHEW GEORGE

CONTACT

Department of Mathematics
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RESEARCH INTERESTS

My field of study is in geometric analysis. I am interested in fully non-linear PDEs on complex manifolds, especially those arising from geometry. These include complex Monge-Ampère type equations on Kähler and Hermitian manifolds. My PhD advisor is Bo Guan.

EDUCATION

PhD <i>Mathematics</i> The Ohio State University	Aug. 2018 – currently Columbus, Ohio
Master of Science <i>Mathematics</i> Indian Institute of Science	Aug. 2016 – May 2017 Bangalore India
Bachelor of Science <i>Mathematics</i> Indian Institute of Science	Aug. 2012 – May 2016 Bangalore, India

VISITING POSITIONS

Long Term Visiting Scholar International Center for Theoretical Sciences • Worked on the topic of Minimal Surfaces with Rukmini Dey	June 2017 – August 2018 Bangalore, India
Visiting Scholar Tata Institute of Fundamental Research • Worked on number theory under the guidance of Dipendra Prasad	December 2012 Mumbai, India

PUBLICATIONS AND PREPRINTS

1. *Fully nonlinear parabolic equations of real forms on Hermitian manifolds* (with Bo Guan) (2023), (*submitted*)
2. *Fully nonlinear elliptic equations on Hermitian manifolds for symmetric functions of partial Laplacians* (with Bo Guan and Chunhui Qiu), **Journal of Geometric Analysis** **32**, 183 (2022)
3. *Convergence of a class of fully non-linear parabolic equations on Hermitian manifolds*, (arXiv: 2112.02432) (2021)

AWARDS AND FELLOWSHIPS

Presidential Fellowship	2022-2023
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TALKS

Invited Talks:

Differential Geometry, Topology, and Special Structures Seminar CUNY Graduate Center	April 19, 2024
Complex Geometry and PDE seminar (online talk) Columbia University	Feb 29, 2024
SIAM Great Lakes Meeting Michigan State University	Oct 13th 2023
Purdue Geometry Seminar Purdue University	Sep 11th 2023
Informal Complex geometry Seminar Columbia University	December 8th 2022
IISc Geometry & Topology Seminar Indian Institute of Science	Dec 16th, 2021

TEACHING EXPERIENCE

Calculus 1 - MATH 1151 Ohio State University	Fall 2019, Spring 2020 Columbus, OH
Engineering Calculus 2 - MATH 1172 Ohio State University	Fall 2020 Columbus, OH
Calculus 1 - MATH 1151 Ohio State University	Fall 2021, Spring 2022 Columbus, OH
Calculus 2 - MATH 1152 Ohio State University	Fall 2022 Columbus, OH

SERVICES

Reviewer for Journal of High Energy Physics, Journal of Mathematical Study	
OSU Colloquium Committee Graduate Student representative	Fall 2023 Columbus, OH
Co-organize OSU Differential Geometry Seminar Organized with Prof. Bo Guan	Spring 2022 Columbus, OH
Directed Reading Program Guided Zichuan Wang on a reading project in Riemannian Geometry.	Spring 2020 Columbus, OH

LANGUAGES

Malayalam (native), English (bilingual)